

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	2	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Operations & Maintenance Manuals				o	
					o	
DWR ID	DWR_RD2101_01_s_2013_2					
Comment Code						
Inspector Comment						
The LMA has the O&M Manual available electronically.						

Photo 1 of 1 : SP_2017_RD2101_326_2_20170313_00004.jpg



View of the O&M manual and other documentation.

LM Start		Rating **	A	Issue No.	4		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Emergency Supplies & Equipment				o		o
					o		o
DWR ID	DWR_RD2101_01_s_2013_4						
Comment Code							
Inspector Comment							
LMA has emergency supplies on site at the warehouse.							

Photo 1 of 2 : SP_2017_RD2101_326_4_20170313_00005.jpg



View of the emergency flood fight supplies in the shop.

LM Start		Rating **	A	Issue No.	4 (cont)
LM End		Issue Type +	Ma	Location *	N/A

Photo 2 of 2 : SP_2017_RD2101_326_4_20170313_00006.jpg



Another view of the emergency flood fight supplies in the shop.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	5	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				o	
					o	
DWR ID	DWR_RD2101_01_s_2013_5					
Comment Code						
Inspector Comment						
LMA is current on flood fight training.						

No Photos

LM Start	0.04	Rating **	M	Issue No.	12
LM End	0.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.657648 °	37.657648 °
				-121.253812 °	-121.253812 °
DWR ID	DWR_RD2101_01_s_2012_12				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA is actively exterminating rodents in this area.					

Photo 1 of 1 : SP_2017_RD2101_326_12_20170313_00008.jpg



View of the rodent holes on the waterside levee slope, facing upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	0.05	Rating **	U	Issue No.	945 (cont)
LM End	0.05	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.657801 °	37.657801 °
				-121.253745 °	-121.253745 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51391 DS_ID:20699 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 11/16/2016 Same as previous inspection slide gate still missing. Also dense vegetation prevents access to crossing. Recommend removing vegetation along pipe alignment and both concrete headwalls to conduct proper inspection of structure. (O. Magana - DWR UCIP)09/17/2013 Slide gate missing from WS toe. Pipe has heavy sediment buildup. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 18-inch corrugated metal drainage pipe through levee, 3 feet below crown. Concrete headwalls are located on both the waterside (WS) and landside (LS) ends. Slide gate at headwall is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit No. 12, December 1968, (HLM 0.05), Drawing No. 07-04-1666, sheets 1666/18 and 1666/52, station 00+70.] FS Date: 11/16/2016					

Photo 3 of 3 : UCIP_SP_2017_51391_47960.jpg



Pipe and headwall visible on LS toe.

LM Start	0.07	Rating **	M	Issue No.	18
LM End	0.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.657831 °	37.657831 °
				-121.253361 °	-121.253361 °
DWR ID	DWR_RD2101_01_f_2016_18				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Arundo on WS slope.					

Photo 1 of 1 : SP_2017_RD2101_326_18_20170313_00010.jpg



View of the arundo on the waterside levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	0.12	Rating **	U	Issue No.	15
LM End	0.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.657348 °	37.657348 °
				-121.252660 °	-121.252660 °
DWR ID	DWR_RD2101_01_s_2017_15				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD2101_326_15_20170405_00041.jpg



View of the rodent burrows on the levee slope.

LM Start	0.20	Rating **	A/W	Issue No.	946
LM End	0.20	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.657130 °	37.657130 °
				-121.251695 °	-121.251695 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20752					
DS_ID:20700					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 20-inch steel stormdrain pipe through levee					
2.0-feet below crown. Concrete "U" headwall and flap gate on the					
waterward end. Pump on pile structure on the landward side. Originally					
included in the 1968 O&M manual.					
FS Date: 9/19/2013					

Photo 1 of 3 : UCIP_SP_2017_20752_34980.jpg



Pump on platform at LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	0.20	Rating **	A/W	Issue No.	946 (cont)
LM End	0.20	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.657130 °	37.657130 °
				-121.251695 °	-121.251695 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:20752
DS_ID:20700
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments:
FIELD_STRUCT_DESC: 20-inch steel stormdrain pipe through levee 2.0-feet below crown. Concrete "U" headwall and flap gate on the waterward end. Pump on pile structure on the landward side. Originally included in the 1968 O&M manual.
FS Date: 9/19/2013

LM Start	0.20	Rating **	A/W	Issue No.	946 (cont)
LM End	0.20	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_20752_34979.jpg



Pump on platform at LS.

Photo 3 of 3 : UCIP_SP_2017_20752_34978.jpg



Concrete U-shaped headwall on LS toe at willow tree on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	0.31	Rating **	M	Issue No.	947
LM End	0.31	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.658142 °	37.658142 °
				-121.250047 °	-121.250047 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20785					
DS_ID:20701					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Inlet blocked by soil from beaver activity. Outlet covered in soil.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 21.0 feet below crown. Headwall and slide gate on the landward end. Concrete "U" headwall and flap gate on the waterward end. Originally included in the 1968 O&M manual.					
FS Date: 9/19/2013					

LM Start	0.31	Rating **	M	Issue No.	947 (cont)
LM End	0.31	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_20785_35046.jpg



Slide gate at concrete headwall on LS toe.

Photo 2 of 3 : UCIP_SP_2017_20785_35045.jpg



Slide gate at concrete headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	0.31	Rating **	M	Issue No.	947 (cont)
LM End	0.31	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.658142 °	37.658142 °
				-121.250047 °	-121.250047 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20785					
DS_ID:20701					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Inlet blocked by soil from beaver activity. Outlet covered in soil.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 21.0 feet below crown. Headwall and slide gate on the landward end. Concrete "U" headwall and flap gate on the waterward end. Originally included in the 1968 O&M manual.					
FS Date: 9/19/2013					

Photo 3 of 3 : UCIP_SP_2017_20785_35044.jpg



Outlet covered in soil but likely at willow tree on WS slope.

LM Start	0.70	Rating **	A/W	Issue No.	26
LM End	0.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.659907 °	37.659907 °
				-121.244219 °	-121.244219 °
DWR ID	DWR_RD2101_01_s_2013_26				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD2101_326_26_20170313_00012.jpg



View of the rodent burrows on the waterside levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	0.78	Rating **	M	Issue No.	20
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.659436 °	37.659436 °	
			-121.242965 °	-121.242965 °	
DWR ID	DWR_RD2101_01_f_2016_20				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.82	Rating **	M	Issue No.	19
LM End	0.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.658918 °	37.658918 °	
			-121.242544 °	-121.242544 °	
DWR ID	DWR_RD2101_01_s_2017_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Backfill and compact rodent hole.					

No Photos

LM Start	0.86	Rating **	M	Issue No.	21
LM End	0.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.658715 °	37.658715 °	
			-121.241945 °	-121.241945 °	
DWR ID	DWR_RD2101_01_f_2016_21				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD2101_326_21_20170313_00011.jpg



View of the rodent hole on the landside slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	0.94	Rating **	M	Issue No.	22
LM End	0.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.657875 °	37.657622 °
				-121.241209 °	-121.241187 °
DWR ID	DWR_RD2101_01_f_2016_22				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.02	Rating **	N	Issue No.	33
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.656745 °	37.656745 °
				-121.241104 °	-121.241104 °
DWR ID	DWR_RD2101_01_f_2014_33				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD2101_326_33_20170313_00017.jpg



View of the tree stump at the waterside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	1.10	Rating **	M	Issue No.	23
LM End	1.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.655521 °	37.655521 °
				-121.241191 °	-121.241191 °
DWR ID	DWR_RD2101_01_s _ 2017_23				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.86	Rating **	U	Issue No.	1
LM End	1.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.650259 °	37.650259 °
				-121.228961 °	-121.228961 °
DWR ID	DWR_RD2101_01_s _ 2017_1				
Comment Code					
Inspector Comment					
07/12/2016: No significant change observed.					
08/19/2015: No significant change observed.					
07/17/2014: No significant change observed.					
09/20/2013: Site has been visited. There are signs of further erosion development along the levee slope and toe.					
07/18/2012: The erosion has further developed toward levee crown.					
Vegetation has been removed.					
08/18/2011: The erosion progressed significantly during the past flood season. The levee toe along the erosion site was washed away, and the erosion has cut the levee structure up to the point about 1/3 of the levee slope. The scarp height is approximately 17 feet. Very dense vegetation and trees are visible.					
10/19/2010: No significant change observed on site. Remaining levee berm topsoil is of silty sand mixture. The erosion is near the downstream transition. An eddy has formed, and has scoured away a 100-foot section of the bank, possibly encroaching into the levee prism. Vegetation on site includes willows, oak, and cotton wood located from the bench to the toe. On the landside are rows of corn crop.					
08/05/2010: Recommended for Repair, per CLRO.					
2009: Site recommended as annual assessment and monitoring if critical erosion site, per CLRO CES Evaluation 2008 Report; an eddy has formed, eroding bank and intruding into the levee prism; Site # is the same as RM76.3, LM1.89; previously rated "U".					
08/30/2007: Recommended for short list of immediate repair sites; silty sand levee material. [2016 Site ID:RD2101U01RM73.92]					

Photo 1 of 3 : SP_2017_RD2101_326_1_20170313_00001.jpg



Upstream view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	1.86	Rating **	U	Issue No.	1 (cont)
LM End	1.95	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.650259 °	37.650259 °	
			-121.228961 °	-121.228961 °	

DWR ID DWR_RD2101_01_s_2017_1

Comment Code

Inspector Comment

07/12/2016: No significant change observed.
 08/19/2015: No significant change observed.
 07/17/2014: No significant change observed.
 09/20/2013: Site has been visited. There are signs of further erosion development along the levee slope and toe.
 07/18/2012: The erosion has further developed toward levee crown. Vegetation has been removed.
 08/18/2011: The erosion progressed significantly during the past flood season. The levee toe along the erosion site was washed away, and the erosion has cut the levee structure up to the point about 1/3 of the levee slope. The scarp height is approximately 17 feet. Very dense vegetation and trees are visible.
 10/19/2010: No significant change observed on site. Remaining levee berm topsoil is of silty sand mixture. The erosion is near the downstream transition. An eddy has formed, and has scoured away a 100-foot section of the bank, possibly encroaching into the levee prism. Vegetation on site includes willows, oak, and cotton wood located from the bench to the toe. On the landside are rows of corn crop.
 08/05/2010: Recommended for Repair, per CLRO.
 2009: Site recommended as annual assessment and monitoring if critical erosion site, per CLRO CES Evaluation 2008 Report; an eddy has formed, eroding bank and intruding into the levee prism; Site # is the same as RM76.3, LM1.89; previously rated "U".
 08/30/2007: Recommended for short list of immediate repair sites; silty sand levee material. [2016 Site ID:RD2101U01RM73.92]

LM Start	1.86	Rating **	U	Issue No.	1 (cont)
LM End	1.95	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2017_RD2101_326_1_20170313_00002.jpg



Looking at the erosion from the levee top.

Photo 3 of 3 : SP_2017_RD2101_326_1_20170313_00003.jpg



Close view of the erosion. Levee crest is approximately 8 feet above the erosion.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	2.23	Rating **	U	Issue No.	24
LM End	2.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.647088 °	37.647088 °
				-121.225077 °	-121.225077 °
DWR ID	DWR_RD2101_01_s_2017_24				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Backfill and compact rodent holes.					

Photo 1 of 1 : SP_2017_RD2101_326_24_20170405_00043.jpg



View of the rodent burrow on the levee slope.

LM Start	2.46	Rating **	U	Issue No.	25
LM End	2.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.644691 °	37.644691 °
				-121.227681 °	-121.227681 °
DWR ID	DWR_RD2101_01_s_2017_25				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD2101_326_25_20170405_00044.jpg



View of the multiple rodent burrows on the levee slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	2.52	Rating **	U	Issue No.	30
LM End	2.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.644166 °	37.644166 °
				-121.228386 °	-121.228386 °
DWR ID	DWR_RD2101_01_s_2017_30				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Multiple large rodent holes.					

Photo 1 of 1 : SP_2017_RD2101_326_30_20170405_00047.jpg



View of the rodent burrows on the levee slope near the toe.

LM Start	2.56	Rating **	U	Issue No.	36
LM End	2.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.643733 °	37.643733 °
				-121.229083 °	-121.229083 °
DWR ID	DWR_RD2101_01_s_2017_36				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD2101_326_36_20170405_00045.jpg



View of the multiple rodent burrows on the levee slope.

LM Start	2.67	Rating **	U	Issue No.	37
LM End	2.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.642436 °	37.642436 °
				-121.229854 °	-121.229854 °
DWR ID	DWR_RD2101_01_s_2017_37				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD2101_326_37_20170405_00046.jpg



View of the multiple rodent burrows on the levee slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	2.82	Rating **	U	Issue No.	950
LM End	2.82	Issue Type +	Ma	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.640566 °	37.640566 °	
			-121.230216 °	-121.230216 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:51392
DS_ID:20705
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 11/16/2016 No access available. Need to coordinate with LMA to obtain access for proper inspection at a later date. (O. Magana - DWR UCIP)09/19/2013 Flap gate missing from WS headwall. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drain pipe through levee, 11 feet below crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate is located on the WS end.
[Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit No. 12, December 1968, (HLM 2.85), Drawing No. 07-04-1666, sheets 1666/13 and 1666/51, station 421+30]
FS Date: 11/16/2016

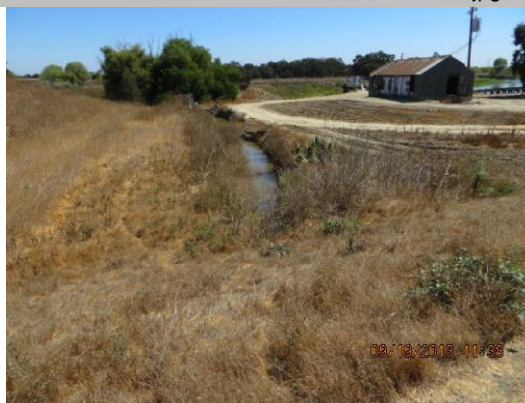
LM Start	2.82	Rating **	U	Issue No.	950 (cont)
LM End	2.82	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_51392_35142.jpg



Concrete headwall visible at LS toe in ditch.

Photo 2 of 3 : UCIP_SP_2017_51392_35141.jpg



Concrete headwall visible on WS toe at canal.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	2.82	Rating **	U	Issue No.	950 (cont)
LM End	2.82	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.640566 °	37.640566 °
				-121.230216 °	-121.230216 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51392 DS_ID:20705 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 11/16/2016 No access available. Need to coordinate with LMA to obtain access for proper inspection at a later date. (O. Magana - DWR UCIP)09/19/2013 Flap gate missing from WS headwall. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drain pipe through levee, 11 feet below crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit No. 12, December 1968, (HLM 2.85), Drawing No. 07-04-1666, sheets 1666/13 and 1666/51, station 421+30] FS Date: 11/16/2016					

Photo 3 of 3 : UCIP_SP_2017_51392_35140.jpg



Concrete headwall at LS toe.

LM Start	2.83	Rating **	U	Issue No.	27
LM End	2.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.640425 °	37.640425 °
				-121.230139 °	-121.230139 °
DWR ID	DWR_RD2101_01_s_2012_27				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Burrows on both sides of levee. Backfill the burrows to restore the levee to original condition.					

Photo 1 of 1 : SP_2017_RD2101_326_27_20170313_00013.jpg



View of multiple rodent holes on the levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	2.85	Rating **	A/W	Issue No.	34
LM End	2.85	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.640148 °	37.640148 °
				-121.230031 °	-121.230031 °
DWR ID	DWR_RD2101_01_f_2016_34				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA dragged the levee to remove unwanted vegetation.					

Photo 1 of 1 : SP_2017_RD2101_326_34_20170313_00018.jpg



View of the vegetation on levee crown.

LM Start	2.85	Rating **	M	Issue No.	28
LM End	2.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.640134 °	37.640134 °
				-121.230019 °	-121.230019 °
DWR ID	DWR_RD2101_01_s_2012_28				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes were backfilled but some are still active. Continue to monitor the area and exterminate the rodents.					

Photo 1 of 1 : SP_2017_RD2101_326_28_20170313_00014.jpg



View of numerous rodent holes with bait stations present.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	2.87	Rating **	A/W	Issue No.	953
LM End	2.87	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.639924 °	37.639924 °
				-121.230005 °	-121.230005 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20875 DS_ID:20707 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 2: 24-inch CMP stormdrain pipe through levee 12.5 feet below crown. Concrete "U" headwall on each end. Flap gate on waterward end. Originally included in the 1968 O&M manual. FS Date: 9/19/2013					

Photo 1 of 3 : UCIP_SP_2017_20875_35156.jpg



Flapgate on WS toe at concrete headwall.

LM Start	2.87	Rating **	A/W	Issue No.	953 (cont)
LM End	2.87	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_20875_35155.jpg



Inlet on LS toe with concrete headwall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	2.87	Rating **	A/W	Issue No.	953 (cont)	
LM End	2.87	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.639924 °	37.639924 °	
				-121.230005 °	-121.230005 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20875						
DS_ID:20707						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 1 of 2: 24-inch CMP stormdrain pipe through						
levee 12.5 feet below crown. Concrete "U" headwall on each end. Flap						
gate on waterward end. Originally included in the 1968 O&M manual.						
FS Date: 9/19/2013						

Photo 3 of 3 : UCIP_SP_2017_20875_35154.jpg



Inlet on LS toe with concrete headwall.

LM Start	2.87	Rating **	A/W	Issue No.	954
LM End	2.87	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.639884 °	37.639884 °
				-121.230008 °	-121.230008 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20876					
DS_ID:20709					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 2 of 2: 24-inch pipe through levee 12.5 feet below crown. Concrete "U" headwall on each end. Flap gate on waterward end. Originally included in the 1968 O&M manual.					
FS Date: 9/19/2013					

Photo 1 of 3 : UCIP_SP_2017_20876_35159.jpg



Concrete inlet on LS toe at canal.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	2.87	Rating **	A/W	Issue No.	954 (cont)
LM End	2.87	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.639884 °	37.639884 °
				-121.230008 °	-121.230008 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:20876
DS_ID:20709
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments:
FIELD_STRUCT_DESC: 2 of 2: 24-inch pipe through levee 12.5 feet below crown. Concrete "U" headwall on each end. Flap gate on waterward end. Originally included in the 1968 O&M manual.
FS Date: 9/19/2013

LM Start	2.87	Rating **	A/W	Issue No.	954 (cont)
LM End	2.87	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_20876_35158.jpg



Concrete U-shaped headwall on WS toe with flapgate.

Photo 3 of 3 : UCIP_SP_2017_20876_35157.jpg



Concrete inlet on LS toe at canal.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	2.87	Rating **	M	Issue No.	29	
LM End	2.87	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.639852 °		37.639852 °
				-121.229980 °		-121.229980 °
DWR ID	DWR_RD2101_01_s_2012_29					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						

Photo 1 of 2 : SP_2017_RD2101_326_29_20170313_00015.jpg



View of repaired site, but it appears that erosion is still occurring.
09/25/2012

LM Start	2.87	Rating **	M	Issue No.	29 (cont)
LM End	2.87	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2017_RD2101_326_29_20170313_00016.jpg



Levee slope is being eroded at this location. Repair needed to preserve access road.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	2.90	Rating **	C	Issue No.	35
LM End	3.03	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.639531 °	37.638405 °
				-121.230234 °	-121.232237 °
DWR ID	DWR_RD2101_01_f_2016_35				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Water District cleared the channel and dumped spoils onto the levee crown. The spoils were pushed to the landside off the crown. The crown roadway needs to be an all-weather drivable surface.					

No Photos

LM Start	2.98	Rating **	M	Issue No.	17
LM End	2.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.638760 °	37.638760 °
				-121.231341 °	-121.231341 °
DWR ID	DWR_RD2101_01_s_2012_17				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Active burrows with rodents present.					

Photo 1 of 1 : SP_2017_RD2101_326_17_20170313_00009.jpg



Numerous burrows present, some already caving in, others are active.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River (Spur Levee)	Right	0.30	03/28/2017 03/28/2017	Maksim Khashchuk

LM Start	0.09	Rating **	A	Issue No.	1
LM End	0.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.661008 °	37.663853 °
				-121.243166 °	-121.242870 °
DWR ID	DWR_RD2101_02_s_2017_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD2101_327_1_20170405_00001.jpg



View of the acceptable vegetation on the levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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